

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claim 1 (currently amended) ~~A~~ An isolated protein comprising any one of the amino acid sequences set forth in SEQ ID NOS: 1, 3, and 5 in the Sequence Listing.

Claim 2 (currently amended) ~~A~~ An isolated protein having ~~95%~~ 98% or more homology to an amino acid sequence from the 1st to 262nd amino acids of the amino acid sequence set forth in SEQ ID NO:1 in the Sequence Listing, and which has an activity of enlarging mammary glands.

Claim 3 (original) The protein according to Claim 2 having an amino acid sequence from the 1st to 262nd amino acids of the amino acid sequence set forth in SEQ ID NO: 1 in the Sequence Listing.

Claim 4 (withdrawn) The protein according to Claim 2 having an amino acid sequence from the 1st to 262nd amino acids of the amino acid sequence set forth in SEQ ID NO:5 in the Sequence Listing.

Claim 5 (currently amended) ~~A~~ An isolated protein having any one of the amino acid sequences set forth in SEQ ID NOS: 1, 3 and 5 in the Sequence Listing wherein one or more amino acids ~~are~~ is substituted, ~~deleted or added;~~ which has 98% or more homology to the amino acid sequence disclosed in SEQ ID NOS:1, 3 or 5 and inducing which induces differentiation of a milk protein-producing cell into a branched luminal structure.

Claim 6 (currently amended) ~~A~~ An isolated protein in which one or more amino acids ~~are~~ is substituted, ~~deleted, and/or added~~ in an amino acid sequence defined by the 1st to 262nd amino acids

of either of the amino acid sequence set forth in SEQ ID NOS: 1 or 5 in the Sequence Listing, which has ~~95%~~ 98% or more homology to the amino acid sequence defined by the 1st to 262nd amino acids of either of the amino acid sequence set forth in SEQ ID NO: 1 or 5 and induces differentiation of a milk protein-producing cell into a branched luminal structure.

Claim 7 (currently amended) ~~★~~ An isolated protein having any one of the amino acid sequences set forth in SEQ ID NOS: 1, 3, and 5 in the Sequence Listing wherein one or more amino acids ~~are~~ is substituted, ~~deleted or added,~~ which has 98% or more homology to the amino acid sequence disclosed in SEQ ID NOS:1, 3 or 5 and promoting which promotes hair growth.

Claim 8 (currently amended) ~~★~~ An isolated protein in which one or more amino acids ~~are~~ is substituted, ~~deleted, and/or added~~ in an amino acid sequence defined by the 1st to 262nd amino acids of either of the amino acid sequences set forth in SEQ ID NOS: 1 or 5 in the Sequence Listing, which has ~~95%~~ 98% or more homology to the amino acid sequence defined by the 1st to 262nd amino acids of either of the amino acid sequences set forth in SEQ ID NO: 1 or 5 and promotes hair growth.

Claim 9 (withdrawn-currently amended) ~~★~~ An isolated polynucleotide encoding the protein according to claim 1.

Claim 10 (withdrawn-currently amended) ~~★~~ An isolated polynucleotide according to claim 9, which is a DNA set forth in SEQ ID NO: 2, 4 or 6.

Claim 11 (withdrawn-previously presented) An antibody recognizing the protein according to claim 1.

P20637.A12

Claim 12 (new) An isolated protein having 98% or more homology to an amino acid sequence from the 1st to 262nd amino acids of the amino acid sequence set forth in SEQ ID NO:1 in the Sequence Listing, and which promotes hair growth.